1 Abstract

The present invention relates to a method for
producing patient specific anti-cancer antibodies using a
novel paradigm of screening. By segregating the anti-cancer
antibodies using cancer cell cytotoxicity as an end point,
the process makes possible the production of anti-cancer
antibodies customized for the individual patient that can be
used for therapeutic and diagnostic purposes. The invention
further relates to the process by which the antibodies are
made and to their methods of use. The antibodies can be made
specifically for one tumor derived from a particular patient
and are selected on the basis of their cancer cell
cytotoxicity and simultaneous lack of toxicity for non-
cancerous cells. The antibodies can be used in aid of
staging and diagnosis of a cancer, and can be used to treat
tumor metastases. The anti-cancer antibodies can be
conjugated to red blood cells obtained from that patient and
re-infused for treatment of metastases based upon the
recognition that metastatic cancers are usually well
vascularized and the delivery of anti-cancer antibodies by
red blood cells can have the effect of concentrating the
antibodies at the site of the tumor.

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